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INFOR	RMATION	DISCI	OSLIDE	Application Number	-10/658,657	
STATI	EMENT BY	Y APP	ICANT	Filing Date	September 9, 2003	
	TO TO LIONING			First Named Inventor	Jack W. Shirlin et al.	
	100 00 many of			Group Art Unit	3742	
Sheet	(use as many sheets as necessary)			Examinar Name	Leonid M. Fastovsky	
Sneet	1 .	01 6		Attorney Docket Number	KLAI 0101 PUS	

				U.S. PATENT DO	CUMENTS	
Examiner Inilials	Cte No.1	U.S. PATENT D	Kind Code <sup>3</sup> (if known)	Name of Potentine or	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant
MIL		3,700,754		Schmitt et al.	10/24/1972	Passages or Relevant Figures Appear
	<del></del> }	3,953.643		Cheung et al.	04/27/1976	
╼┼╼╅	<b></b> -∤	3.968,056		Bolon et al.	07/06/1976	
		3,988,647		Bolon et al.	10/26/1976	
╼┼╌		4,049,844		Bolon et al.	09/20/1977	
<del></del>		4,088,801		Bolon et al.	05/09/1978	
++		4,113,894		Koch, II	09/12/1978	
++		4,187,340		Oishi et al.	02/05/1980	
1		4,188,449		Lu et al.	02/12/1980	
<del>  -</del>		RE30,274		Bolon et al.	05/13/1980	
<del>  -</del>		,256,591		Yamamoto et al.	03/17/1981	
	_	1,271,212		Stengle	06/02/1981	
	_	,338,376		Kritzler	07/06/1982	
		,391,858		atzill .	07/05/1983	
		E31,411		solon et al.	10/11/1983	
		,439,494		akatani et al.	12/13/1983	
		,455,205		lson	03/27/1984	
		478,876		Ison et al.	06/19/1984	
79		479,860		hung	10/23/1984	
		#13/000	H		.0/30/1984	

	<u> </u>			FOREIGN	PATENT DOCUMEN	TS		
Examiner Initiate	Cite No.1	Offic	Foreign Patent Doc		Name of Patrone	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures	To
		RP	1 550 382 0 081 323 A1		Rohm & Haas Co.	08/25/1979	Appear	
$\Box$		EP	0 530 141 A1		Johnson Matthey PLC	06/15/1983		
-+-+		EP	0 567 940 A1		Ciba-Geigy AG Glunz AG	03/03/1993		
		EP	0 711 801 A2		Dow Corning Corp.	11/03/1993		
<del></del>		WO	97/31051		Dymay Company	05/15/1996		
┵		WO	97/45458		Dymax Corporation	08/28/1997		
200		EP	0 820 217 A1		UV Coatings Limited	12/04/1997		_
111		WO	98/47954		EI Du Pont De Nemours	01/21/1998		<del> </del>
			1		DSM N.V.	10/29/1998		{

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INFO	RMATIO	N DISCI	OSURE	Application Number	10/658,657	
STAT	EMENT	BY APP	LICANT	Flung Date	September 9, 2003	
	_			First Named Inventor	Jack W. Shirlin et al.	
	live on many			Group Art Unit	3742	
(use as many sheets as necessary)			ssary)	Examiner Name	Leonid M. Pastovsky	
Sheet	12	of	6	Attorney Docket Number	KLAY 0101 PUS	

		γ		U.S. PATENT DO	CUMENTS	
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4		4,495,042		Hayase et al.	01/22/1985	Floures Appear
		4,513,023		Abrams	01/29/1985	
		4,533,445		Waxy	04/23/1985	
		4,539,258	<del></del>	Orio	08/16/1985	
		4,547,410		Panush	09/03/1985	
		4,551,361		Panush et al.	10/15/1985	
7	_	4,557,975		Burzynski et al.	11/05/1985	
1	_	4,594.315		Moore	12/10/1985	
+-				Shibue et al.	06/10/1986	
++	_	4,609,612		Berner et al.	09/02/1986	
++		4,640,981		Dery et al.	02/03/1987	
<del></del>		4,665,342		Topp et al.	05/12/1987	
<del>1                                     </del>		4,666,821		Hein et al.	05/19/1987	
		1,684,353		deSouza	08/04/1987	
_		738,899		Bluestein et al.	04/19/1988	
		788,108		Saunders, Jr et al.	11/29/1988	
		,806,257		lark et al.	02/21/1989	
<del></del>		,814,208		liyazaki et al.	03/21/1989	
		,816,717	H	arper et al.	03/28/1989	
		,822,646.		lark et al.	04/18/1989	
11		,828,758		illberg-Laforce etal	05/09/1989	
	14	,877,512	B	owns et al.	10/31/1989	

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			Foreign Patent Document				Pages, Columns, Lines, Where	T
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JUH		wo	98/50317		DSM N.V.	MM-DD-YYYY	Appear	Ļ
		DE	198 35 917 A1		BASP AG	11/12/1998		
		wo	00/62586		Allied Photochemical	02/10/2000		
		<u>JP</u>	61203108A (Abstrac	::1]	Toyobo KK	10/19/2000		
<del></del>	<u>_</u>	JP	6016721A (Abstract			09/09/1986		Y
		JP	5311103A (Abstract		Nippon Kayaku KK	01/25/1994		Y
		JP	4267097A (Abstract		Tanaka Kikinzoku	11/22/1993		Ť
	3	7P		-++	Mitsui Toatsu Chem	09/22/1992		_
LHP		_	5279436A (Abstract	44	Japan Synthetic Rubber Co.	10/26/1993		¥

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<sup>&#</sup>x27;Unique citation designation number. "See attached kinds of U.S. Patent Documents." Enter Office that issued the document, by the two-latter code (WIPO Standard ST.3). "For Japanese patent documents, the Indication of the year of the reign of the Emperor must precede the serial number of the patent document. "Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. "Applicant is to place a check mark here."

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INFOF	RMATION	DISC	CI OSLIDE	Application Number	10/658,657	
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				First Named Inventor	Jack W. Shirlin et al.	
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ME		4,900,763		Kraushaar	02/13/1990	Passages or Relevant Figures Appear
<del>-1-</del> 1		4,911,796		Reed	03/27/1990	
<del>-/-</del> +		4,959,178		Frentzel et al.	09/25/1990	
<del>-1</del>	<del></del> +	4,960,614		Durand	10/02/1990	
╅		4,964,948		Reed	10/23/1990	
╼╂╼╾╂		4,975,471		Hayase et al.	12/04/1990	
<del></del>		5,006,397		Durand	04/09/1991	
+-+		5,049,480		Nebe et al.	09/17/1991	·
+-+		5,068,714		Seipler	11/26/1991	
<del>                                     </del>	_	5,076,963		Kameyama et al.	12/31/1991	
<del>1-1-</del>		5,100,848		Enomoto et al.	03/31/1992	
<del>1-1-</del>		116 629		Bilkadi	04/14/1992	
1		120, 220		Kolk et al.	05/26/1992	
		,128,387		shustack	07/07/1992	
		,149,971		hustack	07/07/1992	
		,180,523	<del></del>	CBlhaney et al.	09/22/1992	
	_	,180,757		urand et al.	01/19/1993	
		.183,831		ncey	01/19/1993	
11		,221,560		lelat et al.	02/02/1993	
			P	02/100	05/22/1993	

1			Foreign Patent Do		ATENT DOCUMEN		
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STAT	EMENT	BY AP	PLICANT	Filing Date	September 9, 2003	
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24		5,225,170		Kolk et al.	07/06/1993	Passages or Relevant Figures Appear
<del>-1-1</del>		5,282,985		Zabinski et al.	02/01/1994	
╼╂╼╁		5,296,295		Perkins et al.	03/22/1994	
<del>-1-+</del>		5,326,636		Durand et al.	07/05/1994	
		5,356,545		Wayte	10/18/1994	
<del>-   -  </del>	$\dashv$	5,384,160		Frazzitta	01/24/1995	
		5,395,876		Frentzel et al.	03/07/1995	
++	╼╌╂	5,424,182		Marginean, Sr. et al	06/13/1995	
		5,453,451		Sokol	09/26/1995	
<del></del>		5,454,892		Kardon et al.	10/03/1995	
-+-+-		5,462,701		Hagemeyer et al.	10/31/1995	
+-+-		5,470,643		Dorfman	11/28/1995	
╅╾╅╌		5,470,897	?	Meixner et al.	11/28/1995	
┿		5,514,214		Toel et al.	05/07/1996	
+-		5,523,143		lagemeyer et al.	06/04/1996	
1		5,556,527		garashi et al.	09/17/1996	
<del>/                                    </del>		561,730		ochkovic at al.	10/01/1996	
		,565,126		imura et al.	10/15/1996	
F		587,433		oeckeler	12/24/1996	
<del></del>		,596,024	H		01/21/1997	

				FOREIGN P	ATENT DOCUMEN	ITS	
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INFO	··· ΒΜΔΤΙΩ	N DISCL	OCUPE	Application Number	10/658,657		
STAT	EMENT	RY APP	LICANT	Filing Date	September 9, 2003		
STATEMENT BY APPLICANT				First Named Inventor	Jack W. Shirlin et al.		
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Sheet	.   5	of	6	Attorney Docket Number	KLAI 0101 PUS		

				U.S. PATENT DO	CUMENTS	
Examiner Initials	CRe No.'	U.S. PATENT I	COCUMENT Kind Code <sup>2</sup> (If known)	Name of Patentee or	Date of Publication of	Pages, Columns, Lines, Where Relevant
		5,609,918		Yamaguchi et al.	03/11/1997	Passages or Relevant Figures Appear
-1-1		5,624,486		Schmid et al.	04/29/1997	
	—-	5,633,037		Mayer	05/27/1997	
+-+		5,686,792		Ensign, Jr.	11/11/1997	
1		5,698,310 5,716,551		Nakamura et al.	12/16/1997	
1-1		5,718,950		Unruh et al.	02/10/1998	
1		5,747,115	<del></del>	Komatsu et al.	02/17/1998	
		5,750,186	<del></del>	Howell et al. Prazzitta	05/05/1998	
		5,773,487		Sokol	05/12/1998	
		5,784,197		Frey et al.	06/30/1998	
1		5,787,218		Ohtaka et al.	07/21/1998	
		5,837,745		Safta et al.	07/28/1998 11/17/1998	
		5,866,628		Likavec et al.	02/02/1999	
$\vdash$		5,871,827		Jaffe et al.	02/16/1999	
┝╌┾		5,883,148		Lewandowski et al	03/16/1999	
		5,888,119		Christianson et al	03/30/1999	
<del>  </del>		914,162		Bilkadi	06/22/1999	
HZ-		3,942,284		liskes et al.	08/24/1999	
		,945,502		sich et al.	08/31/1999	

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INFO	RMATIO	M DICC		Application Number	10/658,657		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	September 9, 2003  Jack W. Shirlin et al.		
				First Named Inventor			
	_			Group Art Unit	3742		
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		5,950.808 5,968,996 5,994,424 6,054,501 6,165,386 6,211,262 6,261,645 6,267,645		Tanabe et al. Sanchez et al. Safta et al. Taniguchi et al. Endo et al. Mejiritski et al. Betz et al.	09/14/1999 10/19/1999 11/30/1999 04/25/2000 12/26/2000 04/03/2001 07/17/2001	
		6,290,881		Burga et al. Krohn	07/31/2001	

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